

Importance of Teaching Computer Science

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Abstract: In this article, an opinion is expressed about the place of informatics as a science and the goals and tasks of its other branches in the minds of students. Also, one of the main tasks of secondary education is to inform the young generation about the comprehensive improvement of information culture and its ideological level.

Keywords: informatics, information, computer, Internet, social networks, blogs, electronic libraries and books, digital audio-video-photo.

The global process of forming an automated information society creates opportunities for human development and effective solutions to many economic and social problems. However, this opportunity can be used only by members of society who have the necessary knowledge and skills in this information field. Therefore, one of the main tasks of secondary education is to enable the young generation to comprehensively improve the information culture and its ideological level. In solving this problem, the direction of computer science of the school plays an important role. Therefore, it is important to study and analyze the priority problems of the computer science course and its future prospects. Before talking about the problems and prospects of teaching computer science in schools, we need to consider the main problem. That is, to develop students' understanding of the role of informatics as a science and the goals and tasks of its other branches. By introducing the Internet, social networks, blogs, electronic libraries, electronic books and digital audio-video-photo, mobile phones, instant messengers, IP telephony, PDAs and communicators, in the imagination of modern readers, 20 years ago we were in an information vacuum. we create that we lived, that nothing existed except social, geographical, political obstacles.

Informatics is a subject of general education and it should be viewed from a systematic point of view, which is determined by the specific characteristics and tasks of secondary education. The difficulty of accepting informatics as a science is that the problems in it also apply to the sciences of physics, mathematics, and astronomy, and informatics has interdisciplinarity. Today, children should not be limited only to knowing the existence of a computer, not only to have an idea about it, but also to work freely, to know how to use this technology. Informatics is not about objects or processes, but about the methods, tools and technologies of their automation, creation and operation. This subject provides not only its in-depth study, but also practical application of knowledge and skills for modernization of one's knowledge and optimization of the acquired knowledge.

In informatics classes, ideas of systematic perception of the world, reformation of the general connection of phenomena in nature and social spheres are developed. Its level is mainly determined by the ability to quickly process information and make decisions based on it, which requires additional opportunities for students. Teachers are required to use all new methods and educational tools. The content of school computer science must meet the development level of the science and the requirements of society to a certain extent. The development of computing technology, first of all personal computers and their software updates in rapid succession, is the cause of spreading to all spheres of human activity. This, in turn, shows the need for training and retraining of specialists who are able to deliver computer science to children perfectly, who are able to teach with high-quality information technologies.

The emergence of new computer technologies also has a significant impact on the expansion of educational topics within computer science education. Computer technology is developing so fast that no matter how much education moves, it remains one step behind. In particular, according to the final conclusions of committees such as ACM and Computer Science, the following topics were considered important in the teaching of computer science, and the technical changes made in recent years were taken into account.

- www and its complements
- Network technologies
- Graphics
- Database
- Use of additional software interfaces
- Functionality of the software
- Security and cryptography

At the same time, there is another problem in this regard, which is the lack of a clear boundary between the subjects of computer science courses in secondary schools and higher education. For example, if we take the course of learning technologies for working with office programs, the use of these technologies is important not only for universities, but also for educational institutions. Informatics is increasingly affecting the processes of further development of society.

They are becoming the factors that determine the general potential of society and its development prospects. Informatization of society is the most important component of modern civilization. Informatics is becoming the main technically fundamental science of information and information processes in nature and society. From now on, the general educational and practical importance of the school informatics course will continue to grow. This course has great humanitarian potential. It is important in preparing the young generation for effective work in the information society. Nowadays, the task of educating the growing generation to be independent thinkers is important. The solution to this problem largely depends on the use of interactive teaching methods. Interactive teaching is communicative teaching, in the course of which there is interaction between the teacher and the student.

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